Please type a plus sign (+) inside this box

1

Sheet

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE of 1995 to persons are required to respond to a collection of information unless it contains a valid OMB control number.

04674.10507.0 TRI 1016

Substitute for form 1449A/PTO INFORMATION D STATEMENT BY APPLIED

Under the Paperwork

7

Complete if Known Application Number 10/618,531 Filing Date 07-11-2003 First Named Inventor Phillip A. Furman Group Art Unit Unassigned Examiner Name Unassigned

(use as many sheets as necessary)

of

3397510 2

- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		to the second production of the second district	<u></u>	U.S. PATENT DOCUMENTS		
Examiner Initials *	Cite No. 1		ment Id Code 2 f known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DJ	AA	3,798,209		Witkowski et al.	03-19-1974	
	AB	RE29,835		Witkowski et al.	11-14-1978	•
	AC	5,075,445		Jarvest et al.	12-24-1991	•
	AD	5,142,051	Α	Holy et al.	08-25-1992	
	AE	5,444,063	Α	Schinazi	08-22-1995	
	AF	5,539,116	Α	Liotta et al.	07-23-1996	
	AG	5,565,438	Α	Chu et al.	10-15-1996	
	AH	5,567,688	Α	Chu et al.	10-22-1996	•
	Al	5,587,362	Α	Chu et al.	12-24-1996	
	AJ	5,641,763	Α	Holy et al.	06-24-1997	
	AK	5.674,841	Α	Pragnell et al.	10-07-1997	
	AL	5,674,849	Α	Twist et al.	10-07-1997	
	AM	5,684,010	Α	Schinazi et al.	11-04-1997	
	AN	5,684,153	Α	Geen et al.	11-04-1997	
	AO	5,703,058	Α	Schinazi et al.	12-30-1997	:
	AP	5,767,102	Α	Draper et al.	06-16-1998	
	AQ	5,767,122	Α	Chu et al.	06-16-1998	
	AR	5,808,040	Α	Chu et al.	09-15-1998	·
	AS	5,814,639	Α	Liotta et al.	09-29-1998	· .
	AT	5,834,474	Α	Schinazi	11-10-1998	•
	AU	5,905,070	Α	Schinazi et al.	05-18-1999	
	AV	5,914,331	Α	Liotta et al.	06-22-1999	
	AW	5,990,093	A	Schinazi et al.	11-23-1999	
	AX.	6,194,388	B1	Krieg et al.	02-27-2001	• .
	AY	6,194,391	B1	. Schinazi et al.	02-27-2001	
	AZ	6,207,646	B1	Krieg et al.	03-27-2001	
	AAA	6,218,371	BI	Krieg et al.	04-17-2001	
	AAB	6,225,292	B1	Raz et al.	05-01-2001	
V	AAC	6,232,300	B1	Schinazi et al.	05-15-2001	
▼	AAD	6,239,116	Bl	Krieg et al.	05-29-2001	
DJ	AAE	6,339,068	B1	Krieg et al.	01-15-2002	!

Attorney Docket Number

Examiner Signature	/Donna Jagoe/	(09/30/2006)	Date Considered	
Signature			Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box -

2

Sheet

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
as are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO FEB 1 3 2004 SINFORMATION DISCLOSURES STATEMENT BY APPLACEMENT

(use as many sheets as necessary)

of

7

	Complete if Known
Application Number	10/618,531
Filing Date	07-11-2003
First Named Inventor	Phillip A. Furman
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	04674.105070 TRI 1016 US

3397510 2

		The second of the transfer two	CONTRACTOR OF STREET	U.S. PATENT DOCUMENTS	1982 - Amerika Militaria a Mariera de la	All all the second second second
Examiner Initials *	Cite No. 1	U.S. Patent D Number	Cocument Kind Code 2 (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DJ	BA	6,406,705	B1	Davis et al.	06-18-2002	
	BB	6,562,798	B1	Schwartz	05-13-2003	
1/	BC	6,589,940	Bl	Raz et al.	07-08-2003	
	BD	20020098199	A1	Van Nest et al.	07-25-2002	
DJ	BE	20030091599	Al	Davis et al.	05-15-2003	

				F	OREIGN PATENT DOCUMENTS	See Activities Virginia Vivinia Vivinia	e in the first of the second s	<i></i> • •
Examiner Initials *	Cite No. 1	Fore Office 3			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
DJ	BF	DE	4,224,737	Al	Herbert Schott	02-03-1994		
	BG	EPA	0,494,119	Al	IAF Biochem Int'l.	08-07-1992		
	BH	wo	92/18517	Al	Yale Univ.; U. Ga. R. F.	10-29-1992		1
	BI	WO	94/09793	A1	Emory University	05-11-1994		
	BJ	WO	95/07086	A1	Emory Univ.; CNRS; UAB R.F.	03-16-1995		1
	BK	WO	95/07287	Al	CNRS	03-16-1995		
	BL	WO	95/20595	A1	U. Ga. Res. Found.; Yale Univ.	08-03-1995		
	BM	WO	95/32984	A1	Boehringer Mannheim	12-07-1995		
	BN	wo	96/13512	A2	Genencor International	05-09-1996		F
	ВО	WO	96/22778	A2	Emory University	08-01-1996		
	BP	WO	96/40164	Al	Emory; UAB Res. F.; CNRS	12-19-1996		
	BQ	WO	97/28259	A1	University of California	08-07-1997		·
	BR	WO	98/16247	A1	University of California	04-23-1998	•	
	BS	WO	98/23285	A1	SmithKline Beecham	06-04-1998		
	BT	wo	98/55495	A2	Dynavax Technologies	12-10-1998		
	BU	WO	99/05157	Al	Univ. of Georgia Res. Found.	02-04-1999		
	BV	wo	99/05158	Al	Univ. of Georgia Res. Found.	02-04-1999		
W	BW	wo	99/11275	A2	University of California	03-11-1999		
	BX	WO	99/62923	- A2	Dynavax Technologies	12-09-1999		
DJ	BY	wo	99/66936	A1	Emory; Novirio Pharm. (Idenix)	12-20-1999		

A STATE OF STREET	and promote the state of the st	THE RESERVED AND ADDRESS.	and the second second section in a large right of the second seco
Examiner		Date	
Signature	/Donna Jagoe/ (09/30/2006)	Considered	
Columbia Des Anne Per St & Fin stem &		Carata Cara Cara Cara Cara Cara Cara Car	MATERIAL STATE OF THE PARTY OF

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible, ⁶ Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Pateni and Trademark Office: U.S. DEPARTMENT OF COMMERCE no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, Substitute for form 1449A/PTO INFORMATION DIS STATEMENT BY APPLICA

Complete if Known Application Number 10/618,531 Filing Date 07-11-2003 First Named Inventor Phillip A. Furman Group Art Unit Unassigned **Examiner Name** Unassigned

(use as many sheets as necessary)

Attorney Docket Number 04674.105070 TRI 1016 US 7 Sheet 3 of

3397510 2

	_			F	OREIGN PATENT DOCUMENTS			
Examiner Initials *	Cite No. 1	Office 3	eign Patent Docu Number Kir (Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Té
DJ	CA	WO	00/16804	Al	Dynavax Technologies	03-30-2000		
	CB	WO	00/09531	A2	Novirio Pharm. (Idenix), CNRS	02-24-2000		
	CC	wo	00/21556	Al	Dynavax Technologies	04-20-2000		
	CD	WO	00/25797	A1	Triangle Pharmaceuticals	05-11-2000		
	CE	WO	01/12223	A2	Dynavax Technologies	02-22-2001		
	CF	WO	01/22972	A2	U. Iowa R.F.; Coley Pharm.	04-05-2001		
	CG	WO	01/22990	A2	Coley Pharm.; U. Iowa R.F.	04-05-2001		
	CH	WO	01/68077	A2	Dynavax Technologies	09-20-2001		
	CI	WO	01/68078	A2	Dynavax Technologies	09-20-2001		
	Cl	wo	01/68116	A2	Dynavax Technologies	09-20-2001		
	CK	wo	01/68117	A2	Dynavax Technologies	09-20-2001		
	CL	WO	01/68143	A2	Dynavax Technologies	09-20-2001		
	CM	WO	01/68144	A2	Dynavax Technologies	09-20-2001		
	CN	wo	01/72294	A2	Georgetown; Cornell; U.Ga.	10-04-2001		
	CO	wo	01/95935	A1	Ottawa Health R.I.; Coley Ph.	12-20-2001		
	CP	WO	02/052002	A2	Dynavax Technologies	07-04-2002		
	CQ	WO	02/068058	A2	Triangle Pharmaceuticals	09-06-2002		
	CR	WO	02/069369	A2	Coley Pharmaceutical	09-06-2002		(2)
	CS	WO	02/079213	A1	Triangle Pharmaceuticals	10-10-2002		
	CT	WO	03/000922	A2	Dynavax Technologies	01-03-2003		
	CU	WO	03/012061	A2	Coley Pharm.; Max Delbruck C.	02-13-2003		
W	CV	WO	03/014316	A2	Dynavax Technologies	02-20-2003		
V	CW	WO	03/015711	A2	Coley Pharmaceutical	02-27-2003		
DJ	CX	WO	03/031573	A2	Coley Pharmaceutical	04-17-2003		

Signature /Donna Jagoe/ (09/30/2006)	Date Considered	
--------------------------------------	--------------------	--

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box -Under the Paperwork Redu

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE as are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DIS STATEMENT BY APPEC

Complete if Known **Application Number** 10/618,531 Filing Date 07-11-2003 First Named Inventor Phillip A. Furman Group Art Unit Unassigned **Examiner Name** Unassigned Attorney Docket Number 04674.105070 TRI 1016 US

(use as many sheets as necessary)

7 of 4

Sheet

3397510_2

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T6
DJ	DA	AGUESSE-GERMON, et al., "Inhibitory effect of 2'-fluoro-5-methyl-b-L-arabinofuranosyl-uracil on duck hepatitis B virus replication," Antimicrob. Agents Chemother., 42(2):369–376 (February 1998).	
	DB	AHMED, S.N.S., et al., "Early detection of viral resistance by determination of hepatitis B virus polymerase mutations in patients treated by lamivudine for chronic hepatitis B," Hepatology, 32(5):1078-1088 (November 2000)	
	DC.	ALLEN, M. I., et al., "Identification and characterization of mutations in hepatitis B virus resistant to lamivudine," <i>Hepatology</i> 27(6):1670–1677 (June 1998).	
	DD	BALLAS, Z.K., et al., "Induction of NK activity in murine and human cells by CpG motifs in oligodeoxynucleotides and bacterial DNA," The Journal of Immunology, 157:1840-1845 (1996).	
	DE	CHAYAMA, K., et al. "Emergence and takeover of YMDD motif mutant hepatitis B virus during long-term lamivudine therapy and re-takeover by wild type after cessation of therapy, <i>Hepatology</i> 27(6):1711-1716 (June 1998).	
	DF	CHANG, CN., et al., "Deoxycytidine deaminase-resistant stereoisomer is the active form of (±)-2'.3'-dideoxy-3'-thiacytidine in the inhibition of hepatitis B virus replication," Journal of Biological Chemistry, 267(20):13938-13942 (1992).	
	DG	CHIN, R., et al., "In vitro susceptibilities of wild-type or drug-resistant hepatitis B virus to (-)-β-D-2,6-diaminopurine dioxolane and 2'-fluoro-5-methyl-β-L-arabinofuranosyluracil," Antimicrob. Agents Chemother., 45(9):2495–2501 (September 2001).	
	DH	CHOW, YK., et al., "Use of evolutionary limitations of HIV-1 multidrug resistance to optimize therapy," <i>Nature</i> , 361:650–654 (1993).	
	DI	COLLEDGE, D., et al., "Synergistic inhibition of hepadniviral replication by lamivudine in combination with penciclovir in vitro," Hepatology 26(1):216–225 (July 1997).	
	DJ	COLLEDGE, D., et al., "In vitro antihepadnaviral activities of combinations of penciclovir, lamivudine, and adefovir," Antimicrobial Agents and Chemotherapy, 44(3):551-560 (March 2000).	
	DK	COWDERY, J.S., et al., "Bacterial DNA induces NK cells to produce IFN-y in vivo and increases the toxicity of lipopolysaccharides," J. Immunol., 156:4570-4575 (1996).	
$\overline{\mathbf{V}}$	DL ·	CULLEN, J.M., et al., "In vivo antiviral activity and pharmacokinetics of (-)-cis-5-fluoro-1-(2-(hydroxymethyl)-1,3-oxathiolan-5-yl)cytosine in woodchuck hepatitis virus-infected woodchucks" Antimicrob. Agents Chemother. 41(10):2076-2082 (October 1997).	
DJ	DM	DU, J., et al., "A practical synthesis of L-FMAU from L-arabinose," Nucleosides and Nucleosides, 18(2):187-195 (1999).	

ست بسوال	41.54 24314 24		
Examiner Signature	/Donna Jagoe/ (09/30/2006)	Date Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box .

Under the Paperwork Regulation Act of 1995, no possible to the paperwork regulation of 1995, no possible to the paperwork regulation act of 1995, no possible to the 1995, no possible to 19

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURESTATEMENT BY APPLICANT

(use as many sheets as necessary)

of

7

5

Sheet

	Complete if Known
Application Number	10/618,531
Filing Date	07-11-2003
First Named Inventor	Phillip A. Furman
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	04674.105070 TRI 1016 US

3397510_2

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Te
DJ	EA	FURMAN et al., "The Anti-Hepatitis B Virus Activities, Cytotoxicities, and Anabolic Profiles of the (-) and (+) Enantiomers of cis-5-Fluoro-l-{2-(Hydroxymethyl)-1,3-oxathiolane-5-yl}-Cytosine" Antimicrobial Agents and Chemotherapy, 36(12):2686-2692 (December 1992).	
	EB	GÁLVEZ, J., et al., "Topological approach to analgesia," J. Chem. Inf. Comput. Sci., 35(5):1198-1203 (1994).	
	- EC	GISH, R.G., et al., "Dose range study of pharmacokinetics, safety, and preliminary antiviral activity of emtricitabine in adults with hepatitis B virus infection," Antimicrob. Agents Chemother., 46(6):1734–1740 (June 2002).	
	ED	GUIDOTTI, L.G, et al., "Noncytopathic clearance of lymphocytic choriomeningitis virus from the hepatocyte," J. Exp. Med. 189:1555-1564 (1999).	
	EE	GUO, JT., et al., "Apoptosis and regeneration of hepatocytes during recover from transient hepatnavirus infections" J. Virol., 74:1495-1505 (2000).	
	EF	KLINMAN, D.M., et al., "Contribution of CpG motifs to the immunogenicity of DNA vaccines," J. Immunol., 158(8):3635-3639 (April 15, 1997).	
	EG	KORBA, B.E., et al., "Enhanced antiviral benefit of combination therapy with lamivudine and famciclovir against WHV replication in chronic WHV carrier woodchucks," Antivir. Res. 45:19-32 (2000).	
	ЕН	KORBA, B.E., et al., "Effect of oral administration of emtricitabine on woodchuck hepatitis virus replication in chronically infected woodchucks," Antimicrob. Agents Chemother. 44(6):1757-1760 (June 2000).	
	EI	KRIEG, A.M., "Leukocyte stimulation by oligodeoxynucleotides," Chapter 24 in Applied Antisense Oligonucleotide Technology, C.A. Stein and A.M. Krieg, Eds., Wiley-Liss, Publishers, New York (1998), pp. 431-448.	
	EJ	LEUNG, N. W., et al., "Extended lamivudine treatment in patients with chronic hepatitis B enhances hepatitis B e antigen seroconversion rates: Results after 3 years of therapy," <i>Hepatology</i> 33(6):1527–1532 (June 2001).	
$\sqrt{}$	EK	LIN, TS., et al., "Synthesis and antiviral activity of various 3'-azido analogues of pyrimidine deoxyribonucleosides against human immunodeficiency virus (HIV-1, HTLV-III/LAV), J. Med. Chem., 31(2):336-340 (1988).	
ЪJ	EL	LIPFORD, G.B., et al., "CpG-containing synthetic oligonucleotides promote B and cytotoxic T cell responses to protein antigen: A new class of vaccine adjuvants," Eur. J Immunol. 27:2340-2344 (1997).	

Examiner Signature	/Donna Jagoe/ (09/30/2006)	Date Considered		
			Mr. Mar. S. C.	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box $\longrightarrow \square$

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANCE

(use as many sheets as necessary)

Sheet 6 of 7

Complete if Known				
Application Number	10/618,531			
Filing Date	07-11-2003			
First Named Inventor	Phillip A. Furman			
Group Art Unit	Unassigned			
Examiner Name	Unassigned			
Attorney Docket Number	04674.105070 TRI 1016 US			

3397510_2

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶		
DJ	FA	LOK, A.S.F., and McMAHON, B.J., "Chronic Hepatitis B," AASLD Practice Guidelines, in Hepatology, 1225-1241 (December 2001).			
	FB MAHMOUDIAN, M., "Quantitative structure-activity relationships (QSARs) of pyrimidine nucleosides as HIV-1 antiviral agents," <i>Pharm. Research</i> , 8(1):43-46 (1991).				
	FC	MASON, W.S., et al., "Lamivudine therapy of WHV-infected woodchucks," Virology, 245:18-32 (1998).			
	FD	MELEGARI, M., et al., "Hepatitis B virus mutants associated with 3TC and famciclovir administration are replication defective," Hepatology 27(2):628-633 (February 1998).			
	FE	MENNE, S., et al., "Immunization with surface antigen vaccine alone and after treatment with 1-(2-fluoro-5-methyl-β-L-arabinofuranosyl)-uracil (L-FMAU) breaks humoral and cell-mediated immune tolerance in chronic woodchuck hepatitis virus infection," J. Virology, 76(11):5305-5314 (June 2002).			
	FF	NOWAK, M.A., et al., "Viral dynamics in hepatitis B virus infection," Proc. Natl. Acad. Sci. USA 93:4398-4402 (April 1996).			
	FG	ONO, S. K., et al., "The polymerase L528M mutation cooperates with nucleotide binding-site mutations, increasing hepatitis B virus replication and drug resistance," J. Clin. Investig., 107:449-455 (2001).			
	FH	PEEK et al., "Antiviral activity of clevudine [L-FMAU, (1(2-fluoro-5-methyl-beta, L-arabinofuranosyl) uracil)] against woodchuck hepatitis virus replication and gene expression in chronically infected woodchucks (Marmota monax)" Hepatology 2001, 33, 254-66.	·		
	FI	PISETSKY, D.S., "The immunological properties of DNA," The Journal of Immunology, 156:421-423 (1996).			
	FJ	RISTIG, M.B., et al., "Tenofovir disoproxil fumarate therapy for chronic hepatitis B in Human Immunodeficiency Virus / Hepatitis B Virus-coinfected individuals for whom interferon-α and lamivudine therapy have failed," J. Infectious Diseases, 186:1844-1847 (December 15, 2002).			
	FK	ROMAN, M., et al., "Immunostimulatory DNA sequences function as T helper-1-promoting adjuvants," Nature Med., 3(8):849-854 (August 1997).			
	FL	SATO, Y., et al., "Immunostimulatory DNA sequences necessary for effective intradermal gene immunization," Science, 273(5273):352-354 (July 19, 1996).			
	FM	SEIGNE RES, B., et al., "Inhibitory activity of dioxolane purine analogs on wild-type and lamivudine-resistant mutants of hepadnaviruses," <i>Hepatology</i> 36(3):710-722 (September 2002).			
DJ	FN	SEIGNE'RES, B., et al., "Evolution of Hepatitis B virus polymerase gene sequence during famciclovir therapy for chronic hepatitis B," J. Infect. Dis., 181:1221-1233 (April 2000).			

Examiner Signature	/Donna Jagoe/ (09/30/2006)	Date Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) inside this box Under the Paperwork Reduc

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DES STATEMENT BY A

(use as many sheets as necessary)

7 7 of Sheet

Complete if Known				
Application Number	10/618,531			
Filing Date	07-11-2003			
First Named Inventor	Phillip A. Furman			
Group Art Unit	Unassigned			
Examiner Name	Unassigned			
Attorney Docket Number	04674.105070 TRI 1016 US			

3397510_2

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶			
DJ	GA	SEIGNE'RES, B., et al., "Duck hepatitis B virus polymerase gene mutants associated with resistance to lamivudine have a decreased replication capacity in vitro and in vivo," J. Hepatol. 34:114–122 (2001).				
		SEIGNÈRES, B., et al., "Effects of pyrimidine and purine analog combinations in the duck Hepatitis B Virus infection model," Antimicrobial Agents and Chemotherapy, 47(6):1842-1852 (2003).				
	GC	SHIMADA, S., et al., "In vivo augmentation of natural killer cell activity with a deoxyribonucleic acid fraction of BCG," Jpn. J. Cancer Res (Gann), 77:808-816 (August 1986).				
	GD	SNYDER, S., et al., "The triple combination indinavir-zidovudine-lamivudine is highly synergistic," Antimicrob. Agents Chemother., 44(5):1051-1058 (April 2000).				
	GE	STUYVER, L. J., et al., "Nomenclature for antiviral-resistant human hepatitis B virus mutations in the polymerase region," <i>Hepatology</i> 33(3):751–757 (March 2001).				
	GF	TSAI, CH., et al., "Effect of anti-HIV 2'-b-fluoro-2',3'-dideoxynucleoside analogs on the cellular content of mitochondrial DNA and on lactate production," <i>Biochem. Pharmacol.</i> , 48(7):1477-1481 (1994).				
	GG	VILLAHERMOSA, M. L., et al., "Synergistic inhibition of HIV-1 reverse transcriptase by combinations of chain-termination nucleotides," Biochemistry 36:13223-13231 (1997).				
	GH	Von JANTA-LIPINSKI, M., et al., "Newly synthesized L-enantiomers of 3'-fluoro-modified β -2'-deoxyribonucleoside 5'-triphosphates inhibit hepatitis B DNA polymerases but not the five cellular DNA polymerases α , β , γ , δ , and ϵ nor HIV-1 reverse transcriptase," J. Med. Chem., 41(12):2040-2046 (1998).				
	GI	YAMAMOTO, S., et al., "Unique palindromic sequences in synthetic oligonucleotides are required to induce INF and augment INF-mediated natural killer activity," The Journal of Immunology, 148:4072-4076 (1992).				
	GJ	YING, C., et al., "Inhibition of the replication of the DNA polymerase M550V mutation variant of human Hepatitis B Virus by adefovir., tenofovir, L-FMAU, DAPD, penciclovir and lobucavir," J. Viral Hepatitis, 7:161-165 (2000).				
$\sqrt{}$	GK	ZHU, Y., et al. "Kinetics of hepadnavirus loss from the liver during inhibition of viral DNA synthesis" J. Virol., 75(1):311-22 (2001).				
DJ	GL	ZOULIM, F., "Evaluation of novel strategies to combat hepatitis B virus targetting [sic] wild-type and drug-resistant mutants in experimental models," <i>Antivir. Chem. Chemother.</i> , 12(Suppl. 1):131-142 (2001).				

3397510_2

Examiner Signature	/Donna Jagoe/ (09/30/200	Date Considered
-----------------------	--------------------------	-----------------

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-00)

Please type a plus sign (+) inside this box -> III

AUG 1 0 2004

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

to respond to a collection of information unless it contains a valid OMB control number. Under the Paperwork Reduction A 1 of 1995, no persons ar Complete if Known Substitute for form 1449A/PTO Application Number 10/618,531 INFORMATION DISCLOSURE Filing Date 07-11-2003 STATEMENT BY APPLICANT First Named Inventor Phillip A. Furman Group Art Unit Unassigned (use as many sheets as necessary) Examiner Name Unassigned Attorney Docket Number 04674.105070 (TRI 1016 US) Sheet of 1

3408955 1

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. 1	U.S. Patent Document Number Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
DJ		5,486,520	Belleau et al.	1/23/96		
DJ		5,145,677	Von Eichborn et al.	9/8/92		
		·				

FOREIGN PATENT DOCUMENTS								
Examiner Initials *	Cite No.	Office 3	eign Patent D Number	Kind Code 2 (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	.T ⁶
								\vdash

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
-			
			/

Examiner Signature	/Donna Jagoe/ (09/30/2006)	Date Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.